Major CDRs Training Symposium

LCS/MSD

CDR Carla Albritton

LCS Seaframes

LOCKHEED MARTIN
We never forget who we're working for™

GENERAL DYNAMICS
Strength On Your Side®

- Non-traditional hull forms
- Non-traditional materials
- Non-traditional construction practices
- Non-traditional system suppliers
- CODAG propulsion
- Water jet drive (x4)
- Modular Open Systems Approach
- Open Computing Architecture
- Automation

LCS Funding

- **Traditional Ship Funding:**
  - **Ship rcvd OPTAR (EMRM & Other) and managed by financial SK onboard.**
  - **Financial reporting (BOR, SFOEDL, TL) performed onboard.**
  - **Govt Purchase Card SK onboard.**

- **LCS Funding will be Non-Traditional:**
  - **OPTAR rcvd and managed at CLASSRON._**
  - **All funding transactions completed ashore at MSD.**
  - **All financial reports done at MSD.**
  - **All consumable orders and purchase card transaction completed at MSD.**

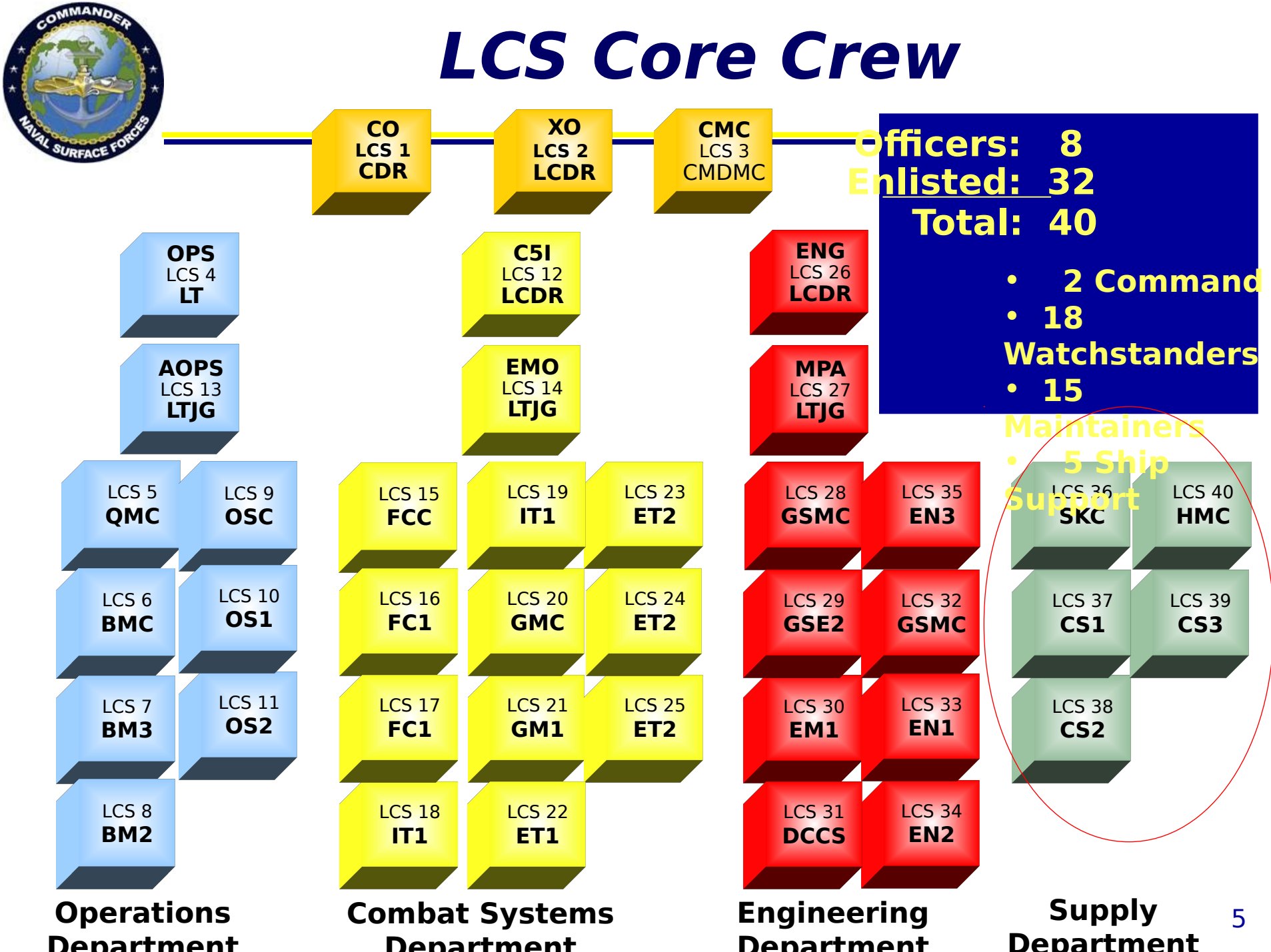
Mission Package Support

- **Mission Package Maintenance Plan Being Refined By PEO LMW**
  - **Direct vice Fleet Funding (OSB Decision: Shift from N4 to N86)**
  - **PMS 430 Lead Agency for Mission Package Integration (Support Contracts)**

- **Mission Packages Use Existing Navy and Developmental Systems**
  - **Three Mission Packages Combined Consist of 30+ Total Modules**
  - **Some Sustainment Requirements and Capabilities Already in Place**
    - **Example: AQS-20 SONAR**
  - **ISEA (PMS 420) Has Knowledge of All Sustainment Requirements**

- **Support Via Performance Based Logistics**
  - **Modules Stored and Maintained in Module Support Facility**
  - **Leverage Existing Sustainment Support**
    - Navy Equipment ISEA first Option (NSWC, NUWC, PMS/PMA/PMW)
    - Centrally Managed and Funded
  - **Add RMC (Gov't) Capability Only If Required**

LCS Core Crew

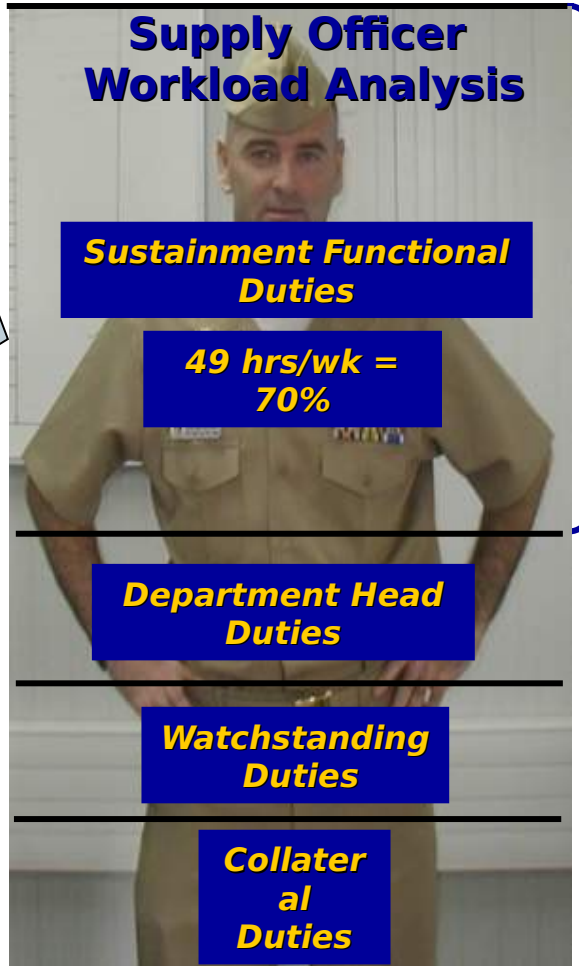


LCS Supply Department

Sustainment Functional Areas

- Material Mgmt
- Food
- Retail Services
- Pay/Personnel/Postal
- HAZMAT
- Ordnance
- Fuel
- Medical

New business areas



FFG/SSN SK workload w/NTCSS Onboard
393 hrs / wk

LCS Suppo workload w/"As-Is" processes and NTCSS onboard
138 hrs / wk

LCS Suppo workload w/"To-Be" processes and LMAIS solution
49 hrs / wk

Based on LCS CONOPS…removed most food service, retail, postal and pay & personnel workload from the equation

Evolving maintenance plans will further define workload …

Logistics Maintenance Automated Information System (LMAIS) Status

Bar Code Supply (BCS)

- On budget/schedule
- Preliminary design review (PDR) and System Concept Review (SCR) completed 7 Nov 06
- Target delivery Date is Nov 2007

SKED 3.2

- On schedule
- NTCSS server installed at FISC Feb 07
- OMMS-NG
- 3-M

Notable Achievements & Barriers

- **Achievements**
  - **Completed IDS-LMAIS BCS Spiral 1 Critical Design Review**
  - **Approval of ECP #0196 installation of NIAPS server on board General Dynamic ships**
- **Barriers**
  - **NIAPS compatibility**
    - ***NIAPS 1.2 procured for LCS 1***
    - ***Sked 3.2 and BCS are being certified for NIAPS 2.0***
  - **BCS schedule slip; contributing factors:**
    - ***Mission module ROM***
    - ***Unable to recover from early requirements slip***
      - *Use case development took longer than anticipated*
    - ***Original schedule did not include slack time due to pressures to meet LCS-1 delivery***
    - ***NETWARCOM IATO security approval time not included as part of completion schedule***

S-1 Update

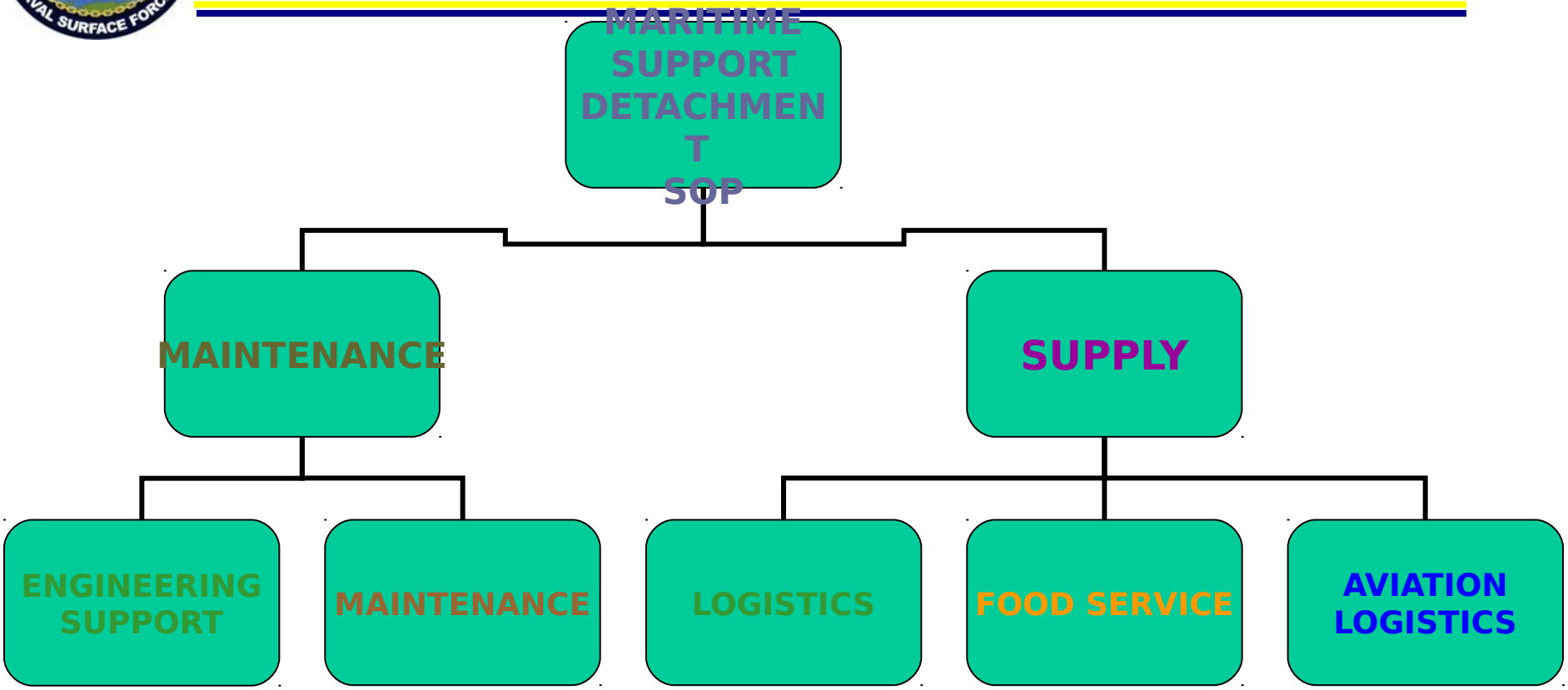
- **Participated in DS-LMAIS Bar Code Supply (BCS) Spiral 1 Critical Design Review (CDR)**
  - SSCN Demonstrated good Progress against changing requirements
  - CDR locked down requirements
    - Requirements discovered after CDR will not be included in Spiral 1
  - Product delivery Pushed back to August 2007
- **Participated in Pre-CDR product demonstration of the Intermec handheld at SSCN**
  - Preview of BCS Quicklook 2 usability testing (issue, receive, and manage material locations) for both applications
  - Mobile device easy to use - scanning function worked fine

S-2 Update

- **eFSM**
  - Reprogramming to SQL (for NIAPS Interface Afloat)
    - 95% Complete - ECD 15 June 07
  - Reprogramming for Web and Backend Application to SQL
    - 90% Complete - ECD 22 June 07
  - NAVSISA Mech and NAVSEA Working on a NIAPS Non-Permanent Install Waiver for All Pearl Harbor CGs and DDGs Including Port Royal
    - ECD TBA
  - eFSM Passed NFMIS Testing May 07

Maritime Support Detachment

MSD


MARITIME SUPPORT DETACHMENT SOP
MAINTENANCE
SUPPLY
ENGINEERING SUPPORT
MAINTENANCE
LOGISTICS
FOOD SERVICE
AVIATION LOGISTICS

MAINTENANCE

ENGINEERING SUPPORT

- Equipment Operating Hours Tracking
- Navy Energy Usage Reporting System (NEURS)
- Casualty Reports
- Material History and Configuration Management
- Quality Assurance Program (QA) and Departure from Specifications (DFS)
- LCS Master Technical Library
- Operating Logs and Legal Records
- Electrical Safety
- Fuel Oil Quality Management
- Lube Oil Quality Management
- Jacket Water Chemistry Program
- Tag Out Bill
- Emergency Diving Bill
- Fueling Procedures
- Repair Party Manual

MAINTENANCE

- Ship's Maintenance Officer
- Ship's 3M Officer
- Preventive Maintenance
- Corrective Maintenance

- Environmental Compliance Board
- Gas Free Engineering
- Water Sanitation Bill
- Energy Conservation
- Legal Records
- Gage Calibration
- EOSS Program
- Bearing Records Program
- Flex Hose Program
- Marine Gas Turbine Equipment Service Records
- Safety Device Settings
- Weight Test Manager

SUPPLY

LOGISTICS

- **Financial Management**
- **Procurement**
- **Inventory Control**
- **DLR Management**
- **Pre-Expended Bin**
- *Purchase Card Management*
- *Supply Certification*
- **Distance Support**
- **Logistics Support**
- **Fuel Logistics Management**
- **Ordnance Log Management**
- **HAZMAT**
- *Ship's Services*
- **Postal Services**
- **Collateral Duties**
- **Expediting**

FOOD SERVICE

- **Provision Ordering & Delivery**
- **Monitor Usage**
- **Survey**
- **Financial Management**
- **Food Service Management Ashore**
- **Sale of Meals**
- *Food Preparation*
- *Breakout*
- **Sanitation**
- **Inspection**
- *Contract for Stevedores*
- **Food Service & Galley Equipment**
- *CS Duties & Responsibilities*
- **Safety**
- **Training**

AVIATION

- **Policy**
- **Responsibility**
- *Helicopter AVDET Operations Afloat*
- **Funding**
- **Retrograde Management**

LST Update

Ribbon has been cut……

…Open for business

23 Mar 2007

- MSD Logistics Support Team facility completed
- Nine NMCI seats; NTCSS capable
- Call us, 5 phone lines: 556-5714/5715/5722/5738/5742
- E-mail us: lst.fiscsd@navy.mil (logistics support team group e-

LST Update

Recent Events

- ***Logistics Rehearsal of Concept (LROC) Phase 1, 2-5 April***
  - ***Participated in 18 Scenarios (78 drill elements)***
  - ***CLASSRON, LST, LCS Supply Officers, and LCS CSs.***

- ***Kings Bay Trident Refit Facility (TRF) Food Service Visit, 17 April***
  - ***CFFC, CNSF, SUBLANT, NAVSUP, COMFISCS, FISC SD, FISC Norfolk, FISC Jax***
  - ***Food Service Distance Support on Trident Submarines***

- ***Started drumbeat with FISC Norfolk and Jax***
  - ***Started with Bi-weekly TELCON***
  - ***Currently monthly TELCON***
  - ***Support plan from Marinette and Mobile to San Diego***

Deployed Seaframe Maintenance

- **Maintenance Support Team Will Coordinate All Maintenance:**
  - **At Sea**
    - **Ship's Force Capable- Basic Preventive Maintenance or Corrective Maintenance**
    - **Not Ship's Force Capable**
      - **Distance Support Tech Assist: Anchor Desk, Chat, Etc.**
      - **In Theater Capability: Regional Maintenance Center; Indefinite Delivery Indefinite Qty (IDIQ) Contracts, Tender Support via Sea Base**
      - **Commercial Off the Shelf/ Foreign Systems Repair Available in Many Overseas Ports**
      - **Fly Away Teams via Sea Base**
  - **Inport**
    - **Deferred Corrective and Preventive Maintenance Beyond Ships Manhours**
      - **2-3 Weeks Per Crew Cycle (117 Days)**
    - **Local Repair (Sasebo, etc) – Regional Maintenance Center, Standing IDIQ Contracts, Tender**
    - **Fly Away Teams**
      - **Homeport Regional Maintenance Center, Contractor, and/or Immediate Superior In Command (ISIC) Personnel**

Issues

- **LCS1 Shipyard Fire**
  - **No Word on Schedule Impact**
  - **Affected CPO Berthing**
    - **Cable Damage is Primary Concern**
- **Cost Overrun - Both LCS1 and LCS2 Originally $220 Million**
  - **LCS1 75-80% Complete**
    - **Expected to Cost ~$460-480 Million**
  - **LCS2 Currently 50% Complete**
    - **Already Exceeded $220 Million Baseline**

LCS-1 Fire Damage

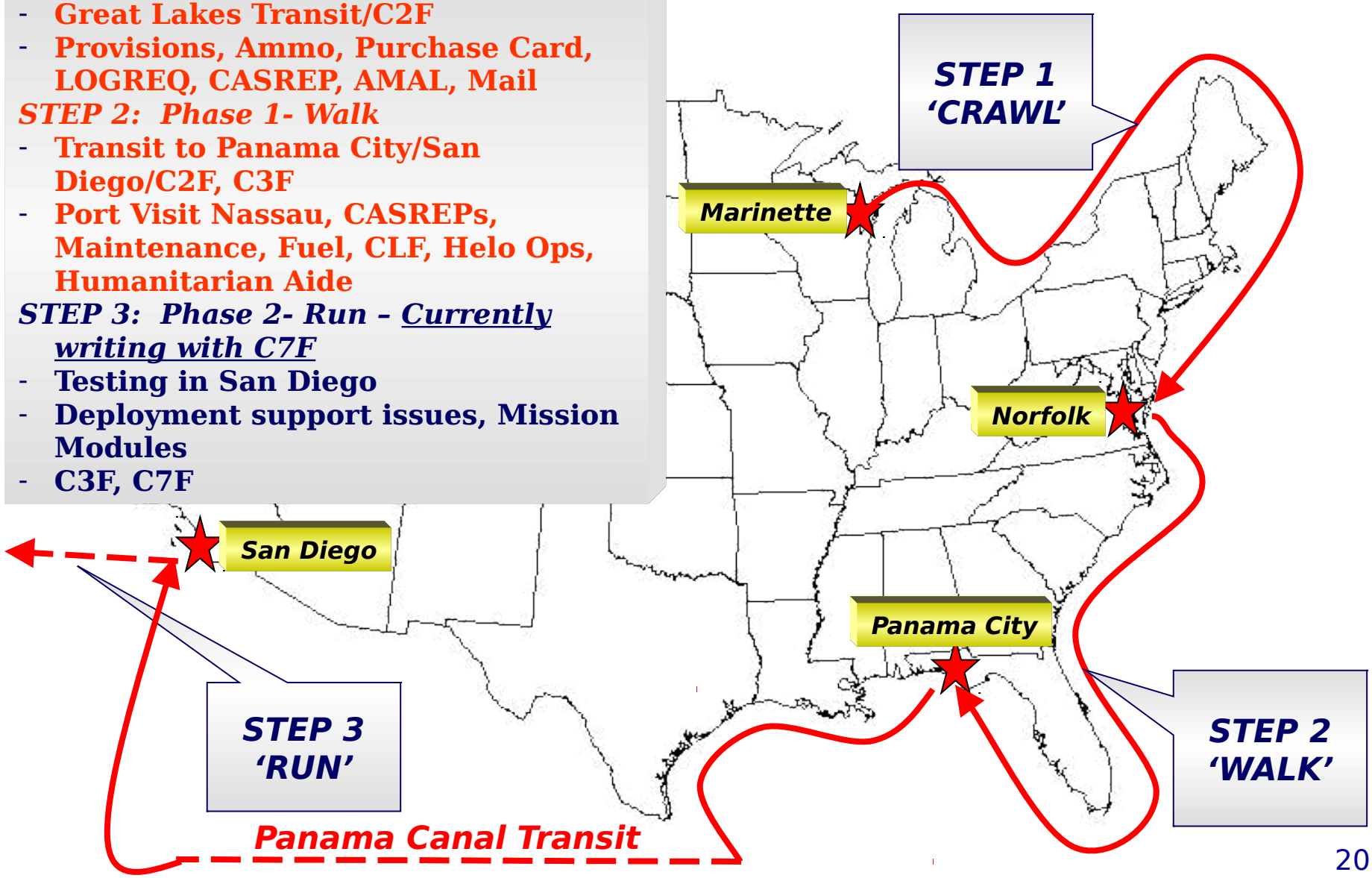
Procedure…

Three steps, two phases

STEP 1: Phase 1- Crawl
- **Great Lakes Transit/C2F**
- **Provisions, Ammo, Purchase Card, LOGREQ, CASREP, AMAL, Mail**

STEP 2: Phase 1- Walk
- **Transit to Panama City/San Diego/C2F, C3F**
- **Port Visit Nassau, CASREPs, Maintenance, Fuel, CLF, Helo Ops, Humanitarian Aide**

STEP 3: Phase 2- Run – <u>Currently writing with C7F</u>
- **Testing in San Diego**
- **Deployment support issues, Mission Modules**
- **C3F, C7F**



Questions?

BCS Update (cont.)

- **PMS 420 FY07 funding to start Consolidated Data Base (CDB) effort delayed due to comptroller concern with OPN funding**

- **CDB and Spiral 2 requirements definition**
  - Need to lock down requirements
  - Need to coordinate with NTCSS and DS programs
  - Need to ensure PMW 150 and NTCSS resource sponsor concur with approach and accept life cycle support responsibility
  - NAVSUP leading this effort and communicating with PEO C4I, SSC Norfolk and SEA 04L

BCS Update (cont)

- **BCS Progress**
  - **Iterations 1 - 3 of 5 are complete.**
    - ***Iteration 3 includes initial development for issue, receive, manage material locations for the intranet application and additional Mobile functionality***
  - **Iteration 4 underway from a development perspective**
    - ***Iteration 4 will start initial "round trip" communication from BCS to Shore through NIAPS and DS (simulated)***

BCS Update (cont.)

- **BCS Quicklook 2 completed April 16th – 19th**
  - **Testing included**
    - ***Usability testing for all Receive material (Mobile & Intranet), Issue Material (Mobile & Intranet) and all manage Material Locations (Mobile & Intranet) Review storyboards for manage mobile device (intranet) and change password (intranet)***
    - ***Synchronization between Mobile and Intranet on the LAN***
    - ***Printing and scanning of bar codes and receipts***
    - ***Review storyboards for Administer Application (Intranet) and Manage Mobile Device (Intranet)***
- **Future Schedule**
  - **Quicklook 3 = Iteration 4; scheduled for mid June**
  - **Final Look = Iteration 5; complete during FAT/FMC**

BCS (cont.)

- **Verification Test Schedule**
  - Development Integration Test (DIT): occurs after completion of each iteration Product Integration
  - System Integration Test (SIT): occurs upon completion of DIT events

Test	Date	Status
DIT 1	23 Feb - 1 Mar	Completed
DIT 2	10 Apr - 17 Apr	Completed
DIT 3	Mid June	
SIT 1	Late June	
DIT 4	Late July	
SIT 2	Late July – Early August	

  - Test Readiness Review (TRR) – Early August
  - System Qualification Test (SQT) – Mid August
  - Release Readiness Review (RRR) Milestone – scheduled for August 28th

PMS Sked 3.2

- **Software testing is scheduled to begin in June/July**
- **Initial testing will take place at ANTECH offices in Norfolk**
  - ANTECH has NTCSS suite in their offices
  - Able to test data between Sked and NTCSS
  - ANTECH working with OMMS-NG developers at SSCN on various testing possibilities
- **At issue: shore based NIAPS server necessary to host maintenance data for MSD personnel has not been identified**
  - MSD application server must be able to send-receive data from afloat LCS using Distance Support to support SKED 3.2
  - SKED Program Office has provided hardware requirements to Deputy Director, Distance Support NAVSEA 03DB

Materiel SOPs

- Engineering Support:
  - 26 SOP's were reviewed and reduced to 20 due to incorporation in other SOP's
- Maintenance:
  - 4 of 4 SOPs in development
- Feedback:
  - Suggestion has been made to make only 4 SOP's (Engineering Support, Safety, Maintenance, & DC) after instructions are finalized by both seaframes

Logistics SOPs

- Logistics:
  - Drafted and routed to staff for review. Used in the April, Logistics Rehearsal of Concept (LROC) to flush out holes in the logistic process. Currently being updated to correct problems identified in LROC.

- Food Service:
  - SOPs drafted and routed to staff for review. Recently reviewed SOP with the Navy food management team and the Logistics support team to refine procedures.

Logistics SOPs

- Aviation:
  - SOPs drafted and routed to CNAF for review and revision. We will be meeting with CNAF reps to review changes made to the SOP on 21 May.

MSD Manages Seaframe Support

LMAIS

BCS & SKED

Maritime Support Detachment

Maintenance/Parts Scheduling Coordination

Financial Planning/Management

NTCSS Installed and Running

Logistics Support Team

Core Functions:

Requirements/Load Planning

Stock Control

Financial Management

Subsistence Management

Ammo/Fuel Management

Postal Liaison

Reachback Capability:

Logistics Support Center

Aviation Module

Port Operations

Hazmat

Maintenance Support Team

Core Functions:

Plan and Sked-

Preventive Maintenance

Corrective Maintenance

I and D Level Maintenance

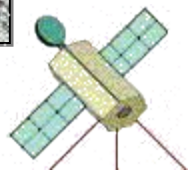
Reachback Capability:

Distance Support

Tech Assist

Regional Maintenance Ctrs.

MSD/CLASSRON Development



REMOTE SUPPORT

Key Tenets…

- ***Single Decision Center***
- ***Integrated IT Push/Pull***
- ***Single Funding***

CLASSRON

FISC **MSD** LST&MST **RMC**

MST Single POE to Maintenance Support
- Engineering
- Shipyards
- Repair Facilities
- Tech Assist
- AIMD
- ISEA

Single POE to Training and Admin Support
- ATG
- TSC
- PSD Afloat
- NPC
- EPMAC

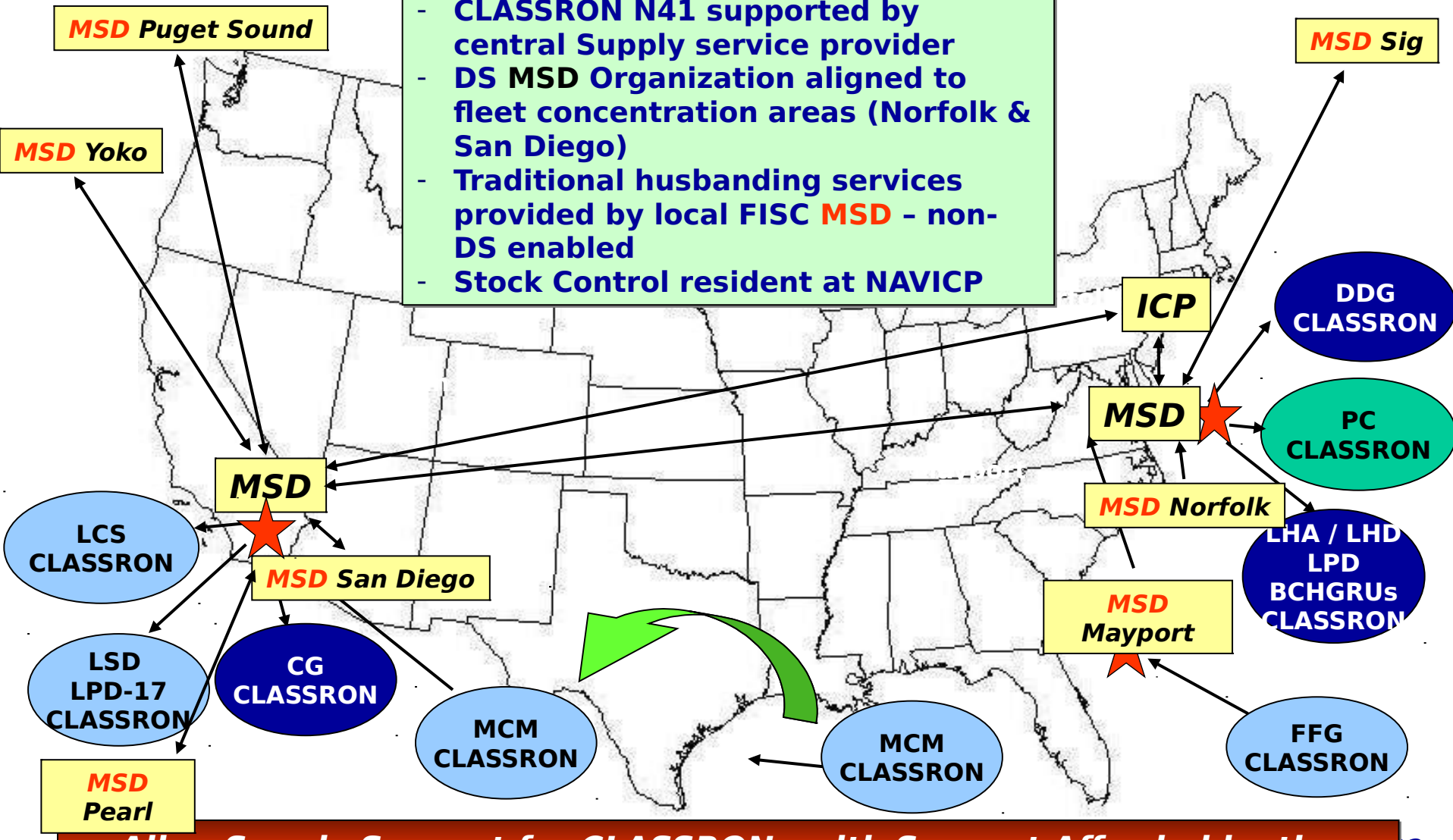
Interface to Mission Module support…
- PMS 420
- Module Support Facility

- LST Single POE to Logistics Support
  - DLA Fuel & Parts
  - NAVICP
  - ASD
  - FISC
  - NOLSC

MSD – LSC VISION

Supporting the CLASSRON

- CLASSRON N41 supported by central Supply service provider
- DS MSD Organization aligned to fleet concentration areas (Norfolk & San Diego)
- Traditional husbanding services provided by local FISC MSD – non-DS enabled
- Stock Control resident at NAVICP



Align Supply Support for CLASSRONs with Support Afforded by the MSD/LSC